



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

Print

PO No	Supplier	Line No	Rel No	Terms	Purchased Item	Description	For Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	To
P039413	AC1001-VC	1	1	Net 30	MT-4140-S-0.500X10.000 Steel	Sheet/Plate as per ASTM A829 OR AMS 6395				7 4/9/2018	8		S059634	Stock	4/10/2018	\$ 58.22 / sf	0		\$41
		8			MT-4140-S-17-4 SS Round Bar H1150	0.625" dia. MATERIAL: 17-4 PH CONDITION H1150 receive				12 4/10/2018	12		S059635	Stock	4/10/2018	\$ 28.75 / ft	0		\$34
		14			MT-4140-S-0.375X5.500 Steel	Sheet/Plate				6 4/3/2018	6		S059636	Stock	4/10/2018	\$ 33.67 / ft	0		\$26
Total:											26								\$791

Plex 4/10/2018 12:52 PM Dart Dubois Pascal

PURCHASE ORDER
PO039413

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200

DART
AEROSPACE

Supplier:

AC1001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

Ship To:

1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No:

PO039413

PO Date:

3/23/18

Due Date:

4/3/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, Chantal/Phone:
clavoie@dartraero.com

Via:

Ground
Net 30

Pymt Terms:

Special Comments: QUOTE NO SOU0093847

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit	Price (CAD)	Extended Price
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1		MT-4140-S- 0.500X10.000		AISI 4140 Steel Sheel/Plate as per ASTM A829 OR AMS 6395	Firmed	4/3/18	6.667 sf	0 sf	7 sf \$58.217082/sf		\$388.13	
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2		1 pcs of 10" x 96" 28-32 rc M1018B1.000X03.000		1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W	Firmed	4/3/18	12 ft	0 ft	12 ft \$10.80666/ft		\$129.68	
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3		M6061T6S.090		6061-T6 .090 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209	Firmed	4/3/18	96 sf	0 sf	96 sf \$6.358125/sf		\$610.38	
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4		M303R0.625		303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE	Firmed	4/3/18	12 ft	0 ft	12 ft \$4.13333/ft		\$49.60	
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5		M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	4/3/18	12 ft	0 ft	12 ft \$1.188/ft		\$14.26	
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Plex 3/28/18 1:56 PM dar.lavoie.chantal

PURCHASE ORDER

Line	Item	Part	Supplier	Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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A513 Seamless Alloy
Steel Round Tubing 1" dia.
x 0.120" Wall

MT-A513-T
1.000W0.120

ASTM A513 TYPE 5
(1020/1026) SEAMLESS
ALLOY STEEL ROUND
TUBING (DOM)
SPECIFICATION: ASTM
A513 TYPE 5

6061-T6 Round Bar .750"

M6061T6R0.750

T6/T651/T6510/T6511/T62
ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR
AMS-QQ-A-225/8 OR
AMS 4117
4128/4115/4116 OR QQ-
AA-200/8 OR AMS-QQ-A-
200/8 OR AMS 4160 OR
ASTM B221 OR ASTM
B221

receive ft

17-4 SS Round Bar H1150

M17-4-H1150-R0.625

0.625" dia.
MATERIAL: 17-4 PH
CONDITION H1150

receive ft

Tool Steel Round Bar
1.250 dia.

MT-O1-R1.250

304 Bar 1.00 X 1.00

M304B1.000X1.000

MATERIAL: AISI 304/316
SS BAR OR AISI 304/316
SS PLATE AS PER ASTM
A276 OR ASTM A240
NOTE: AISI 303 NOT
ACCEPTABLE

receive ft

6061-T6 Bar .750 X 2.50

M6061T6B0.750X02.500

T6/T651/T6510/T6511/T62
ALUMINUM BAR PER
QQ-A-225/8 OR AMS-QQ-
A-225/8 OR AMS
4117/4128/4115/4116 OR
QQ-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR
ASTM B221

receive ft

6061T6 Bar .375 X 1.00

M6061T6B0.375X1.000

T6/T651/T6510/T6511/T62
ALUMINUM BAR PER
QQ-A-225/8 OR AMS-QQ-
A-225/8 OR AMS
4117/4128/4115/4116 OR
QQ-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR
ASTM B221

receive ft

MAR 28 2018

MAR 28 2018

MAR 28 2018

MAR 28 2018

APR 10 2018

MAR 28 2018

MAR 28 2018

PURCHASE ORDER

3/28/2018

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
13	M6061T6B1.000X06.000			6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER Q-A-225/8 OR AMS-QQ- Q-A-225/8 OR AMS 4117/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	4/3/18	36 ft	0 ft	36 ft \$19.451666/ft		\$700.26
14	MT-4140-S-0.375X5.500			AISI 4140 Steel Sheel/Plate	Firmed	4/3/18	6 ft	0 ft	6 ft \$33.66666/ft		\$202.00

MAR 28 2018

36

APR 10 2018

Grand Total: \$3,154.76

Order Notes

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dataerospace.com for further explanation.

Plex 3/28/18 1:56 PM dart.lavoie.chantal

DELIVERY - CLIENT

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Delivery Route

Instruction

Product Description

Weight

Qty

U/M

PCS NB

CMD

EXP

B/O

IN

I

S

C

Internal Use Only

OUT

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

1

5

F-M

1 PLATE 4140 HEAT TREAT 1/2 NS
P4140-12H 8509

1 X 10" X 96" 28/32 RC LINE 1
AC14644-FU-04/04
heat # 300188

2 ROUND SS 5/8 17-4 H1150
RSS-58174 10309

1 X 12' R/L LINE 8
AC14646-JG-06/04
EAT # SH0767-G102

3 PLATE 4140 HEAT TREAT 3/8 NS
P4140-38H 8806

1 X 5 1/2" X 72" LINE 14
AC14644-FU-04/04

136.20 6.67 PI2_\$CLB

12.52 12.00 PI_\$CLB

42.10 2.75 PI2_\$CLB

10' X 96"

12'

5' X 72"

8'

12'

6'

DAS 11 9-89

DAS 11 9-89

DAS 11 9-89

APR 10 2018

APR 10 2018

APR 10 2018

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00080257

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2018/03/23
Delivery date **2018/04/09**
Your order N° 039413
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
HEAT # 298132										

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% reshipping charge.

Total Weight (Lbs) : 190.82

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Y M D
1 8 0 4 0 9

Customer's Signature

Date

Total (\$CAD)

Chemical certification
Certification chimique

Part
CO 80257

PO. 14644N

Order Num / No. Commande	AC-14644	Vendor / Fournisseur	46	Country of origin / Pay d'origine	SLOVENIA	Date	04/28/17	Heat / soude	300188	Material ID # / No. matière	
Grade / Nuance	4140 PLT	Conditions	HEAT TREATED: Q&T E+VD								
Shape / Forme	PLT	Size / Dimension	0.500	Specifications	ASTM A829/A829M						

Chemical composition / Analyse chimique															
Carbon (C)	Mini / maxi	0.3700 / 0.4400	Silicon (Si)	0.1500 / 0.3500	Manganese (Mn)	0.6500 / 1.1000	Phosphorus (P)	0.0100 / 0.0190							
	Actual %	0.400		0.227		0.814		0.008							
Sulphur (S)	Mini / maxi	0.0200 / 0.0400	Chromium (Cr)	0.7500 / 1.2000	Nickel (Ni)	0.1000 / 0.2000	Molybdenum (Mo)	0.1500 / 0.2500							
	Actual %	0.001		0.970		0.240		0.170							
Cooper (Cu)	Mini / maxi	0.1900 / 0.2900	Vanadium (V)	0.0400 / 0.0500	Aluminum (Al)	0.0000 / 0.0000	Tungsten (W)	0.0000 / 0.0000							
	Actual %	0.178		0.035		0.025		0.000							
Cobalt (Co)	Mini / maxi	0.0000 / 0.0000	Titanium (Ti)	0.0000 / 0.0000		0.0000 / 0.0000		0.0000 / 0.0000							
	Actual %	0.000		0.000		0.000		0.000							
Mechanical properties / Propriétés Mécaniques															
Yield strenght / Elasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC	Surface Hd / Dureté										
0.000 PSI	0.000 PSI	0.00	0.00		299-305 BHN										

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material
Nous certifions que les données ci haut ont été vérifiées et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

Chemical certification

Certification chimique

Order Num / No. Commande	AC-14644	Vendor / Fournisseur	46	Country of origin / Pay d'origine	SLOVENIA	Date	01/25/17	Heat / coulee	298132	Material ID # / No. matiere	
Grade / Nuance	4140 PLT	Conditions	HEAT TREAT								
Shape / Forme	PLT	Size / Dimension	0.375	Specifications	ASTM A899 JB						

Chemical composition / Analyse chimique											
Carbon (C)		Silicon (Si)		Manganese (Mn)		Phosphorus (P)					
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500		0.248		0.6500 / 1.1000		0.0100 / 0.0190		0.006	
Actual %	0.427										
Sulphur (S)		Chromium (Cr)		Nickel (Ni)		Molybdenum (Mo)					
Mini / maxi	0.0200 / 0.0400	0.7500 / 1.2000		0.970		0.1000 / 0.2000		0.250		0.190	
Actual %	0.001										
Cooper (Cu)		Vanadium (V)		Aluminium (Al)		Tungsten (W)					
Mini / maxi	0.1900 / 0.2900	0.0400 / 0.0500		0.036		0.0000 / 0.0000		0.027		0.000	
Actual %	0.136										
Cobalt (Co)		Titanium (Ti)									
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000		0.000		0.0000 / 0.0000		0.000		0.000	
Actual %	0.000										
Mechanical properties / Propriétés Mécaniques											
Yield strenght / Elasticité		Tensile / Rés. à la traction		Elongation / Allon. (%)		Red. of area / Surface (%)		RC		Surface Hd / Dureté	
0.000	PSI	0.000	PSI	0.00		0.00				280/281	BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material.

Nous certifions que les données ci haut ont été vérifiées et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

CUSTOMER ORDER NUMBER
NUMERO DE COMMANDE DU CLIENT

AC00014646
PART NUMBER/NUMERO DE PIECE

510436

SOLD TO: ACIER OUELLETTE INC.
VENDU A: DIVISION SALABERRY DE VALLEYFIELD

SHIP TO: EXPRIMED

ACIER OUELLETTE INC.
DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE
SALABERRY-DE-VALLEYFIELD QC J6S 5L1

Description: 17-4 CF BAR COND H1150

ASTM A564

Line total: 12 LB

HEAT: SH0767-G102

ITEM: 510436

Specifications:

ASTM A564 T630 13
ASTM A388/A388M 16A
AMS 5643 U
AMS 2315
EN 10204 3.1
ASTM E112

CHEMICAL ANALYSIS

C SI MN P S NI CR MO

0.02 0.45 0.65 0.027 0.001 4.27 15.25 0.21

CU NBTA NB TA

0.39 0.21 0.21 0.0036

RCPT: R388512

COUNTRY OF ORIGIN : TAIWAN

MECHANICAL PROPERTIES

DESCRIPTION
COND H1150
YLD STR KSI 129.0

ULT TEN KSI 144.0
%ELONG IN 02 IN 20.0
%RED IN AREA 73.0
HARDNESS RC 32

GRAIN SIZE : 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrits du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

Signature

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a eu aucun contact avec le mercure pendant sa possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport n'a eu aucun contact avec le mercure pendant sa possession.

Invoice Number
T377934

Certification Date
5-APR-2018

CUSTOMER ORDER NUMBER
NUMERO DE COMMANDE DU CLIENT

AC00014646

PART NUMBER/NUMERO DE PIECE
510436

Certification Date
5-APR-2018

Invoice Number
T377934

SOLD TO:
ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE

EXPEDIE A:

ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE
SALABERRY-DE-VALLEYFIELD QC J6S 5L1

Description: 17-4 CF BAR COND H1150

ASTM A564

Line Total: 12 LB

ITEM: 510436

HEAT: SH0767-G102

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

ULTRASONIC: YES

THERMAL TREATMENT: OK

SOLUTION TREATMENT: 1900 +/- 25 DEG F X 30 MIN/INCH

(MINIMUM OF 1/2 HOUR), FAST COOLED TO BELOW 90 DEG F
PRECIPITATION TREATMENT: 1150 +/- 10 DEG F FOR 4 HOURS

MINIMUM AND AIR COOLED.

MACRO: OK

MICRO:

MICRO CONTAINS NO MORE THAN 5% FERRITE

COMMENTS

red.r atio 537.1:1
api 6a, appendix m

17-4 h1150 is the same with aisi 630 h1150

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

Joanne Després

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-5-0.375x3.500 PO / BATCH NO.: 039413/5059636 DATE: APR 10 2018

MATERIAL CERT REC'D: <u>YES</u>	QUANTITY REJECTED: <u>0</u>
QUANTITY INSPECTED: <u>6</u>	SHEET SIZE ORDERED: <u>N/A</u>
QUANTITY RECEIVED: <u>6</u>	SHEET SIZE RECEIVED: <u>N/A</u>
THICKNESS ORDERED: <u>0.375</u>	THICKNESS RECEIVED: <u>0.375</u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>9-89 APR 10 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECH #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc


SPECIFICATION:

ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-(T.TT) x (W.WWW)
WHERE "T.TT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX: 0.063" THICK SHEET = MT-4140-S-0.063
EX: 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

 <small>Manufactured, Ontario, Canada</small>	
TITLE	
AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO.	REV
MT-4140-S	A
<small>UNLESS OTHERWISE SPECIFIED INTERPRET PER ENGLISH SA 2008 DIMENSIONS ARE IN MILLIMETERS</small>	
DESIGNED BY:	DATE
VM 21/3/2018	21/3/2018
CHECKED BY:	DATE
VM 21/3/2018	21/3/2018
APPROVED BY:	DATE
DD 02/12/2018	02/12/2018
SCALE: NTS	SHEET 1 OF 1
<small>Copyright © 2008 BY DART AEROSPACE LTD. All rights reserved. All other rights reserved. All other rights reserved. All other rights reserved.</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H150-R0625 DATE: APR 10 2018

PO / BATCH NO.: 039413/5059635

MATERIAL CERT REC'D:	<u>Yes</u>	THICKNESS ORDERED:	<u>0.635</u>
QUANTITY RECEIVED:	<u>12'</u>	THICKNESS RECEIVED:	<u>0.625</u>
QUANTITY INSPECTED:	<u>12'</u>	SHEET SIZE ORDERED:	<u>N/A</u>
QUANTITY REJECTED:	<u>0</u>	SHEET SIZE RECEIVED:	<u>N/A</u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	
ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>9-89 APR 10 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17.4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION:

AMS 5643 OR ASTM A564

PART NUMBER:

M17-4-1 HHHH-R X.XXX
COND O.D.

WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
X.XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART	PART NUMBER
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI	M17-4-R4.000
2.500" DIAMETER BAR H900 CONDITION	M17-4-H900-R2.500
3.250" DIAMETER BAR H1025 CONDITION	M17-4-H1025-R3.250
0.750" DIAMETER BAR A CONDITION	M17-4-CONDA-R0.750

RELEASED
2017-10-31
Efm17-728

APPROVED

DESIGN	NO	DESCRIPTION	DATE
DRAWN	NO	DART AEROSPACE LTD	17.09.14
CHECKED	CP	HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	RA	DRAWING NO. M17-4-R	REV. C
APPROVED	WM	TITLE 17.4 SS ROUND BAR	SHEET 1 OF 1
DE. APPR.	CP	SCALE	NTS
DATE	17.09.14		

THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSE OF THE PROJECT FOR WHICH IT WAS CREATED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: Mt-440-5-0.500x10.000 DATE: APR 10 2018
 PO / BATCH NO.: 039913/50596341

MATERIAL CERT REC'D: yes QUANTITY RECEIVED: 8
 QUANTITY INSPECTED: 8 QUANTITY REJECTED: 0
 THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____

DATE: 9-89 APR 10 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV.	DESCRIPTION	ECH #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE

MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc


SPECIFICATION:

ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-(T.TTT) x (W.WWW)
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

 DART AEROSPACE <small>Hamilton, Ontario, Canada</small>	
TITLE	
AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO.	REV
MT-4140-S	A
TOOL NO. INITIALS AND DATE DESIGNED BY: VM 21/3/2018 DRAWN BY: VM 02/13/2018 CHECKED BY: VM 02/13/2018 DIMENSIONED BY: MD 02/13/2018 APPROVED BY: M.D. 02/13/2018	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS APPLY AFTER FINISHING DIMENSIONS: 1/16" & 1/32" ANGLES: 1/16" SURFACE: 1/16" FINISHES: 1/16"	
SCALE: 1/1" = 1" SHEET 1 OF 1	